

The Dutch version of the Oxford Cognitive Screen (OCS-Nederlands): A stroke-specific cognitive screening tool

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Introduction

Background

The Oxford Cognitive Screen (OCS) is a short screening instrument for cognitive disorders after stroke. The English version of the OCS has already been shown to have good reliability and validity (Demeyere et al., 2015, Psychological Assessment).

Current Study

We developed the Dutch translation of the OCS (OCS-NL) and we present preliminary data collected in a small sample of older volunteers.

Participants

Sample Description

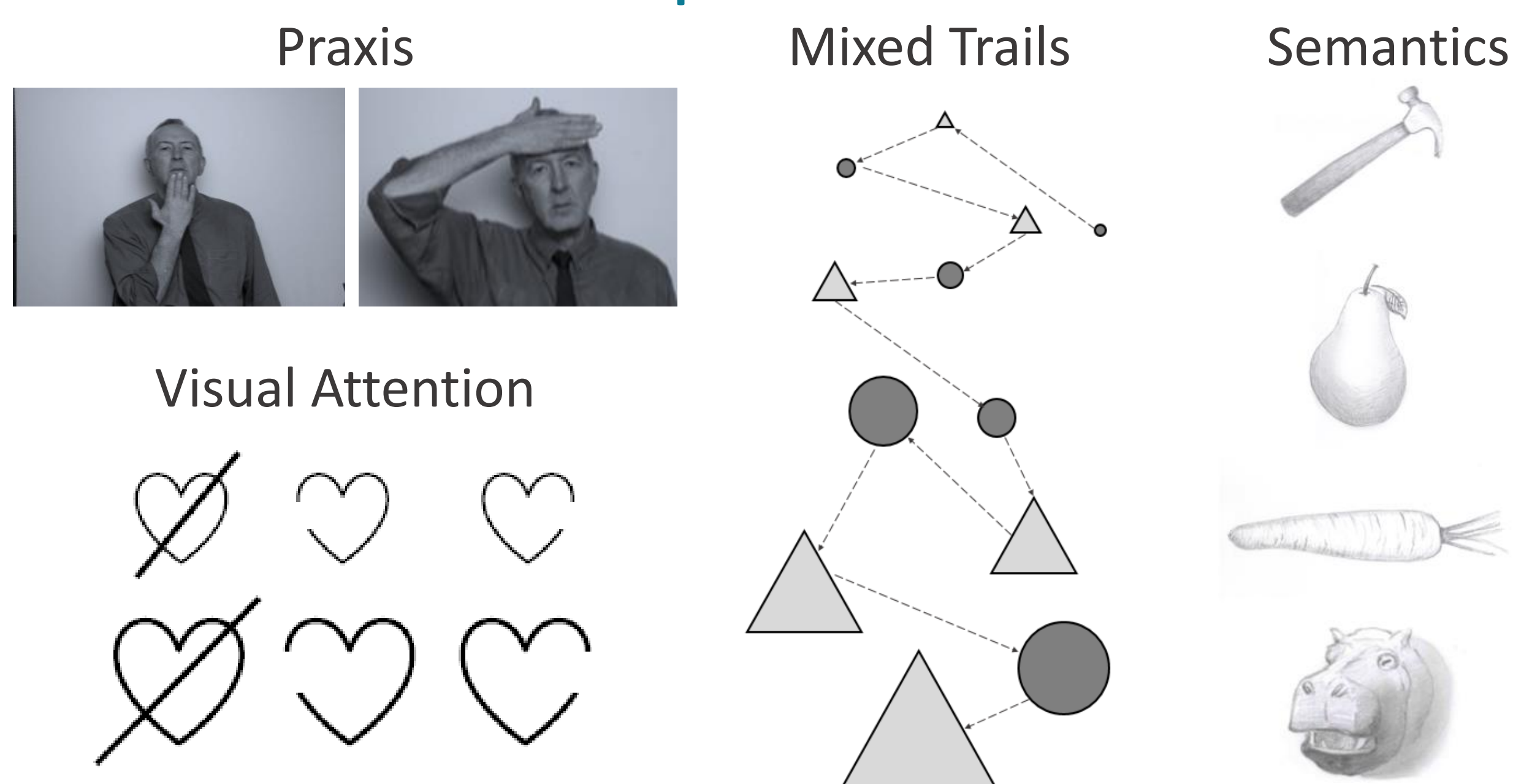
- Exclusion: no neurological or psychiatric history, severe visual or hearing deficits
- Sample size: N = 26
- Age: Range 56 – 79, Mean = 67.85, SD = 6.94
- Gender: 17 female, 9 male
- Education Level: Mean = 15.7, SD = 2.7
- Handedness: 23 right handed, 3 left handed

OCS-Nederlands

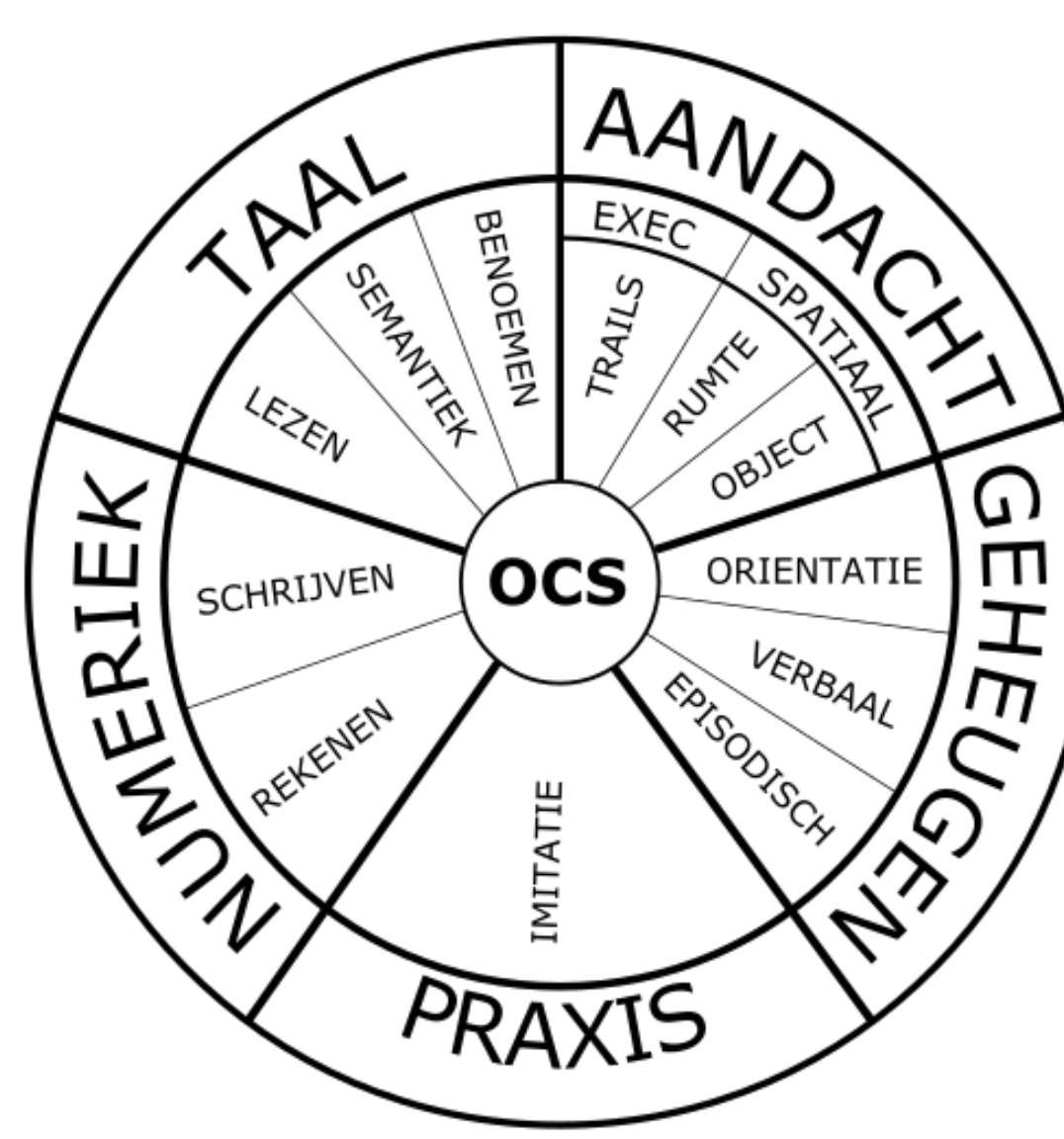
Description

- Screens cognitive domains most often affected by stroke: **language, attention, memory, praxis, numerical cognition**
- Suitable for patients with aphasia, hemi-spatial neglect and visual field deficits
- Short administration time: 15 – 20 minutes

Examples of Subtests

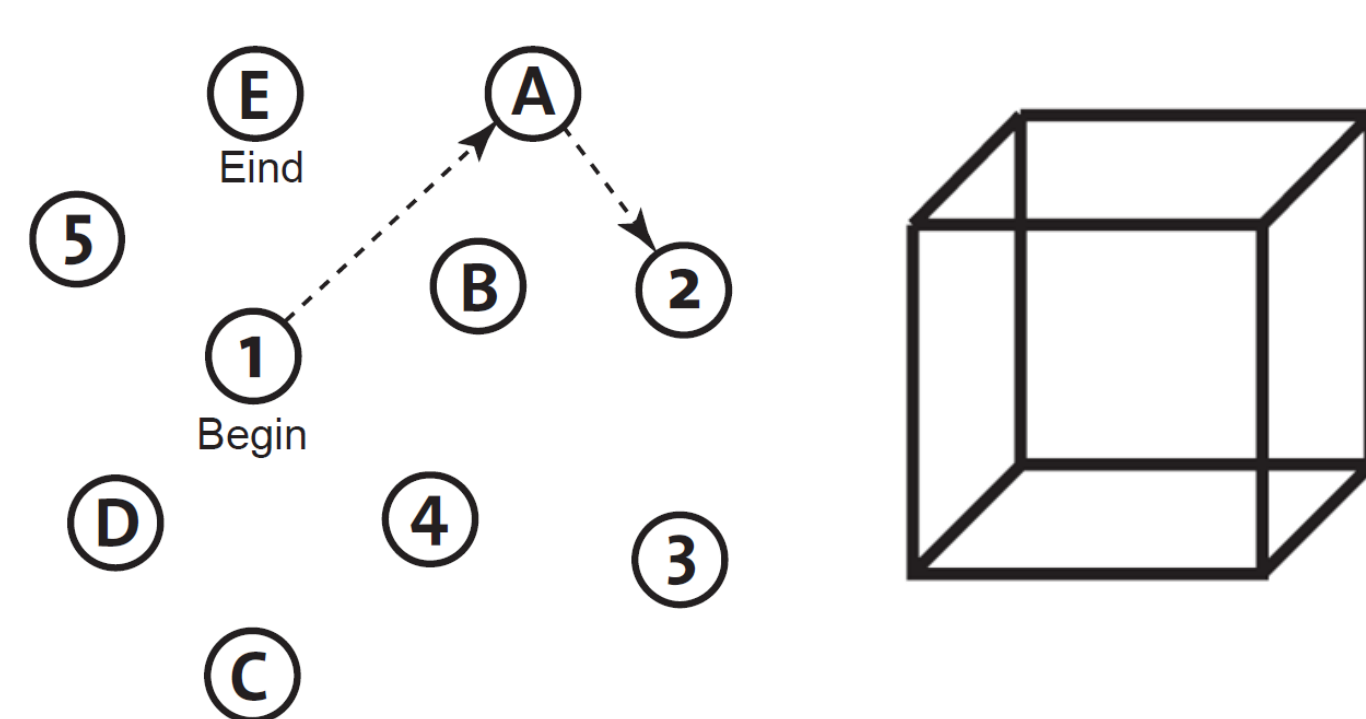


Cognitive Profile



MOCA

Subtests

- **Visuospatial / Executive Functioning:** 
- **Memory:** delayed recall of 5 words
- **Attention:** Digit Span, Go-no-go, Serial Subtraction
- **Abstract Reasoning**
- **Language:** Fluency, Sentences, Naming Pictures
- **Orientation**

Preliminary Results

MOCA

- Mean = 27.08, SD = 1.71; $r_{(MOCA, Age)} = -.31$; total score < 26: n = 3

OCS results

Ceiling performance on: Semantics, Reading a sentence, Orientation, Episodic recognition, Visual field assessment, Writing numbers, Calculation

Tasks	Mean	SD	Worst Possible Score	Best Possible Score	EN-OCS 5th centile	Kendall r MOCA total
Naming Pictures	3.58	0.70	0	4	< 3	.20
Praxis	11.31	0.93	0	12	< 8	.50
Verbal Memory	3.54	0.58	0	4	< 3	-.02
Executive Score	-0.46	2.44	12	-1	> 4	-.11
Executive Time	20.66	10.86	NA	NA	NA	.01
Visual Attention	46.92	3.40	0	50	< 42	.08
Object Asymmetry	-0.08	0.39	50	0	< -1 or > 1	Not enough variance
Space Asymmetry	0.65	2.31	20	0	< -2 or > 2	-.29
Hearts Cancellation Time (min)	1.82	0.53	NA	NA	Time limit: 3 minutes	-.21

Future Plans

- 1) Collect **normative data** of minimum 60 healthy elderly and minimum 50 stroke patients
- 2) Evaluate test-retest and parallel-form **reliability**
- 3) Translate **tablet-based OCS** to Dutch

References

Demeyere, N., Riddoch, M. J., Slavkova, E. D., Bickerton, W., & Humphreys, G. W. (2015). The Oxford Cognitive Screen (OCS): Validation of a stroke-specific short cognitive screening tool, *Psychological Assessment*, 27(3), 883-894.

Nasreddine, Z. S., Phillips, N. A., Bédirian, V., Charbonneau, S., Whitehead, V., Collin, I., ..., & Chertkow, H. (2005). The Montreal Cognitive Assessment, MOCA: A brief screening tool for mild cognitive impairment, *Journal of the American Geriatrics Society*, 53(4), 695-699.